

**RatnerPrestia**

WE SPECIALIZE IN THE LAW OF CREATIVITY®

Suite 301, One Westlakes, Berwyn

P.O. Box 980

Valley Forge, Pennsylvania 19482-0980

Phone: 610-407-0700 • Fax: 610-407-0701

www.ratnerprestia.com

Valley Forge, PA • Allentown, PA • Wilmington, DE

F A C S I M I L E C O V E R S H E E TDATE: November 12, 2002OUR REF.: MTS-3181US

TIME: _____

YOUR REF.: Serial No. 09/471,981

2857

TO: Examiner Ly Tran

COMPANY: U.S. PTO

FROM: Jack J. Jankovitz, Esquire

FAX TELEPHONE: 703-308-7722

OFFICE TELEPHONE: 703-308-0752

TITLE OF DOCUMENT: Response

Total Number of Pages: 9 (including this form)

COMMENTS

FAX RECEIVED

NOV 12 2002

TECHNOLOGY CENTER 2800

CONFIDENTIAL AND PRIVILEGED ATTORNEY/CLIENT INFORMATION

This facsimile transmission (and/or documents accompanying it) may contain attorney/client privileged communications and confidential business information that is intended for use only by the individual or company to whom it is addressed. Disclosure, interception, copying or any other use of this transmission by anyone other than any intended recipient is prohibited. If you receive this transmission by mistake, please notify the sender.

Please notify us immediately if you have not received the number of pages indicated above.

MTS-3181US

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: E. Igaki et al. : Art Unit: 2853
Serial No.: 09/471,981 : Examiner: Ly T. Tran
Filed: December 23, 1999 :
For: INK-JET RECORDING HEAD :

16/E
T-Step 202
11-14-02

RESPONSE TO
OFFICE ACTION DATED AUGUST 9, 2002

FAX RECEIVED

Assistant Commissioner for Patents
Washington, D.C. 20231

NOV 12 2002

S I R :

TECHNOLOGY CENTER 2800

Responsive to the Office Action dated August 9, 2002, please amend the
above-identified application as follows:

IN THE CLAIMS:

Please replace claims 3 and 81 with the following amended claims:

- 1 3. (As Amended) An Ink-jet recording head comprising at least one
2 piezoelectric block having (a) first and second ink pressure chambers, each
3 pressure chamber communicating with a nozzle for ejecting ink supplied from an
4 ink supply, (b) first and second partition walls, each partition wall serving as a
5 driving portion for one of the two ink pressure chambers, each partition wall
6 including a piezoelectric element and at least two electrodes for driving said
7 piezoelectric element, (c) a pressure buffer chamber, and (d) first and second
8 fixed walls,
- 9 wherein at least one of said electrodes is embedded in said partition wall
10 for controlling, by bending of the embedded electrode, whether said partition wall
11 bends toward a side of said ink pressure chamber, or bends toward a side of said
12 pressure buffer chamber,
- 13 the first ink pressure chamber, the first partition wall, said pressure buffer
14 chamber, the second partition wall and the second ink pressure chamber are
15 arranged in sequence along a thickness direction of said piezoelectric block,